

Work Order ID 156590

Wednesday, February 01, 2017 3:53:40 PM

156590

Item ID: D4464-041

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Fuel Tank Assembly

Stop

NS2

Start Date: 2/6/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/28/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan:

Date: FEB 01 2017 Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw Nbr
Revision Nbr

D4464 H

100 Weld per dwg A/R Aluminum rod Batch: 2/13/1562

0.00

100

Large Fab

Memo

0.53

1 - Weld D4023-3 cap as per dwg D4464

Achtung!
Vor Einbau Sicherungsschiff herausnehmen
Attention,
remove safety pin before installation
Atenção!
Remova o pino de segun ança antes de montar

1x

DAS 43

FEB 12 2017

110 QC9- Inspect visual per QSI004- Fusion Welds

0.00

110

QC

Memo

0.00

Quality Control

1

MAR 13 2017

DAS 24

112

112

Small Fab

Memo

0.19

1- Wet insital baffles to front and back panel using rivet and Proseal as per dwg
A/R Proseal Batch: 130625

1x

17/02/13

DAS 36

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____
 QA Closed: _____ Date: _____

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ ☐ ☐ Scrap ☐ ☐ ☐ Use-as-is ☐ ☐ ☐ Suspected Unapproved ☐ ☐ ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ ☐ ☐ ☐ ☐ ☐ Machining ☐ ☐ ☐ ☐ ☐ ☐ Thermoforming ☐ ☐ ☐ ☐ ☐ ☐ Large Fab ☐ ☐ ☐ ☐ ☐ ☐				Cross tube ☐ ☐ ☐ ☐ ☐ ☐ Small Fab ☐ ☐ ☐ ☐ ☐ ☐ Finishing ☐ ☐ ☐ ☐ ☐ ☐ Composite ☐ ☐ ☐ ☐ ☐ ☐				Water Jet ☐ ☐ ☐ ☐ ☐ ☐ Prod. Eng. Coord. ☐ ☐ ☐ ☐ ☐ ☐ Rec/Store/Packaging ☐ ☐ ☐ ☐ ☐ ☐ Supplier ☐ ☐ ☐ ☐ ☐ ☐				Engineering ☐ ☐ ☐ ☐ ☐ ☐ Quality ☐ ☐ ☐ ☐ ☐ ☐ Other ☐ ☐ ☐ ☐ ☐ ☐				MRB (QS1042) Approval _____ _____ _____									
Date : _____ Step #: _____		QTY Effective : _____		Disposition _____ _____ _____																									
Description Work Order Deviation _____ _____ _____																Completed By _____ _____ _____													
Lead hand / Supervisor Approval Verification _____ _____ _____																QC / QA Coordinator Approval _____ _____ _____													
Root Cause																FAULT CATEGORY													
Environment ☐ ☐ ☐ ☐ ☐ ☐		No Re-verification ☐ ☐ ☐ ☐ ☐ ☐		Pressure/Forced ☐ ☐ ☐ ☐ ☐ ☐		Temperature/Cure ☐ ☐ ☐ ☐ ☐ ☐		Power Loss/Surge ☐ ☐ ☐ ☐ ☐ ☐		Positioned Wrong ☐ ☐ ☐ ☐ ☐ ☐		Outside Dimensions ☐ ☐ ☐ ☐ ☐ ☐		Over/Under tolerance ☐ ☐ ☐ ☐ ☐ ☐		Part Incorrect ☐ ☐ ☐ ☐ ☐ ☐		Part Lost/Missing ☐ ☐ ☐ ☐ ☐ ☐		Part Moved ☐ ☐ ☐ ☐ ☐ ☐		Drawing ☐ ☐ ☐ ☐ ☐ ☐		Finish ☐ ☐ ☐ ☐ ☐ ☐		Misread ☐ ☐ ☐ ☐ ☐ ☐		Turning Sequence ☐ ☐ ☐ ☐ ☐ ☐	
Design ☐ ☐ ☐ ☐ ☐ ☐		Operator ☐ ☐ ☐ ☐ ☐ ☐		Bending ☐ ☐ ☐ ☐ ☐ ☐		Set-up ☐ ☐ ☐ ☐ ☐ ☐		Folio/Program ☐ ☐ ☐ ☐ ☐ ☐		Grain ☐ ☐ ☐ ☐ ☐ ☐		Weld ☐ ☐ ☐ ☐ ☐ ☐		Wrong Stock Pulled ☐ ☐ ☐ ☐ ☐ ☐		Out of Sequence ☐ ☐ ☐ ☐ ☐ ☐		Off-set ☐ ☐ ☐ ☐ ☐ ☐		Mislabeled ☐ ☐ ☐ ☐ ☐ ☐		Fit/Function ☐ ☐ ☐ ☐ ☐ ☐		Misaligned/off center ☐ ☐ ☐ ☐ ☐ ☐					
Doc/Data ☐ ☐ ☐ ☐ ☐ ☐		Offset/Setup ☐ ☐ ☐ ☐ ☐ ☐		Centre Not Concentric ☐ ☐ ☐ ☐ ☐ ☐		BOM/Route ☐ ☐ ☐ ☐ ☐ ☐		Broken/Damage/Defect ☐ ☐ ☐ ☐ ☐ ☐		Inspection Incomplete/Unqualified ☐ ☐ ☐ ☐ ☐ ☐		Contamination ☐ ☐ ☐ ☐ ☐ ☐		Countersink ☐ ☐ ☐ ☐ ☐ ☐		Cut Too Short ☐ ☐ ☐ ☐ ☐ ☐		Instructions Incomplete/Unclear ☐ ☐ ☐ ☐ ☐ ☐		Drill Holes ☐ ☐ ☐ ☐ ☐ ☐		Misaligned/off center ☐ ☐ ☐ ☐ ☐ ☐							
Equip/Tooling ☐ ☐ ☐ ☐ ☐ ☐		Supplier ☐ ☐ ☐ ☐ ☐ ☐		Cracks ☐ ☐ ☐ ☐ ☐ ☐		Crimp/Kink/Ripple/Wave ☐ ☐ ☐ ☐ ☐ ☐		Cuffs ☐ ☐ ☐ ☐ ☐ ☐		Crushing ☐ ☐ ☐ ☐ ☐ ☐		Heat Treat ☐ ☐ ☐ ☐ ☐ ☐		Wave/Twist in Tube ☐ ☐ ☐ ☐ ☐ ☐		Marks/Chatter ☐ ☐ ☐ ☐ ☐ ☐		OTHER : ☐ ☐ ☐ ☐ ☐ ☐		OTHER : ☐ ☐ ☐ ☐ ☐ ☐									
Handling/Pre ☐ ☐ ☐ ☐ ☐ ☐		Training ☐ ☐ ☐ ☐ ☐ ☐		Use for Testing ☐ ☐ ☐ ☐ ☐ ☐		Poor Information ☐ ☐ ☐ ☐ ☐ ☐		Rushing ☐ ☐ ☐ ☐ ☐ ☐		Product Improvement ☐ ☐ ☐ ☐ ☐ ☐		Process Improvement ☐ ☐ ☐ ☐ ☐ ☐		Manufacturing Process ☐ ☐ ☐ ☐ ☐ ☐		Past Due ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐									
Internal Transport ☐ ☐ ☐ ☐ ☐ ☐		Use for Testing ☐ ☐ ☐ ☐ ☐ ☐		Poor Information ☐ ☐ ☐ ☐ ☐ ☐		Rushing ☐ ☐ ☐ ☐ ☐ ☐		Product Improvement ☐ ☐ ☐ ☐ ☐ ☐		Process Improvement ☐ ☐ ☐ ☐ ☐ ☐		Manufacturing Process ☐ ☐ ☐ ☐ ☐ ☐		Past Due ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐											
Tribal Knowledge ☐ ☐ ☐ ☐ ☐ ☐		Use for Testing ☐ ☐ ☐ ☐ ☐ ☐		Poor Information ☐ ☐ ☐ ☐ ☐ ☐		Rushing ☐ ☐ ☐ ☐ ☐ ☐		Product Improvement ☐ ☐ ☐ ☐ ☐ ☐		Process Improvement ☐ ☐ ☐ ☐ ☐ ☐		Manufacturing Process ☐ ☐ ☐ ☐ ☐ ☐		Past Due ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐											
LOA ☐ ☐ ☐ ☐ ☐ ☐		Use for Testing ☐ ☐ ☐ ☐ ☐ ☐		Poor Information ☐ ☐ ☐ ☐ ☐ ☐		Rushing ☐ ☐ ☐ ☐ ☐ ☐		Product Improvement ☐ ☐ ☐ ☐ ☐ ☐		Process Improvement ☐ ☐ ☐ ☐ ☐ ☐		Manufacturing Process ☐ ☐ ☐ ☐ ☐ ☐		Past Due ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐											
Substation ☐ ☐ ☐ ☐ ☐ ☐		Use for Testing ☐ ☐ ☐ ☐ ☐ ☐		Poor Information ☐ ☐ ☐ ☐ ☐ ☐		Rushing ☐ ☐ ☐ ☐ ☐ ☐		Product Improvement ☐ ☐ ☐ ☐ ☐ ☐		Process Improvement ☐ ☐ ☐ ☐ ☐ ☐		Manufacturing Process ☐ ☐ ☐ ☐ ☐ ☐		Past Due ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐											
Past Expiry Date ☐ ☐ ☐ ☐ ☐ ☐		Use for Testing ☐ ☐ ☐ ☐ ☐ ☐		Poor Information ☐ ☐ ☐ ☐ ☐ ☐		Rushing ☐ ☐ ☐ ☐ ☐ ☐		Product Improvement ☐ ☐ ☐ ☐ ☐ ☐		Process Improvement ☐ ☐ ☐ ☐ ☐ ☐		Manufacturing Process ☐ ☐ ☐ ☐ ☐ ☐		Past Due ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐											
Misidentified ☐ ☐ ☐ ☐ ☐ ☐		Use for Testing ☐ ☐ ☐ ☐ ☐ ☐		Poor Information ☐ ☐ ☐ ☐ ☐ ☐		Rushing ☐ ☐ ☐ ☐ ☐ ☐		Product Improvement ☐ ☐ ☐ ☐ ☐ ☐		Process Improvement ☐ ☐ ☐ ☐ ☐ ☐		Manufacturing Process ☐ ☐ ☐ ☐ ☐ ☐		Past Due ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐		Misidentified ☐ ☐ ☐ ☐ ☐ ☐											

Work Order ID 156590

156590

Page 2

Wednesday, February 01, 2017 3:53:40 PM

Item ID: D4464-041

Accept

N9000040100

Setup Start

NS1

Revision ID:

Item Name: Fuel Tank Assembly

Stop *NS2*

Start Date: 2/6/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/28/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____

Date: _____

Tooling: _____

Date: _____

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Run Start

Stop

NR1
NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

114

QC5-Inspect part completeness to step on W/O

0.00

114

QC

Memo

0.00

DAS
30
9:59

FEB 13 2017

Quality Control

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION ☐ Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved		AGAINST DEPARTMENT/PROCESS ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier		Engineering ☐ Quality ☐ Other		MRB (QS1042) Approval	
Date : _____		Step #: _____		QTY Effective : _____		Disposition		Completed By	
Description Work Order Deviation				Lead hand / Supervisor Approval Verification					
QC / QA Coordinator Approval				Positioning Wrong Outside Dimensions Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Drawing Finish Misread Turning Sequence					



DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only ☐

QA Closed: _____ Date: _____

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS				MRB (QSI042) Approval			
Part No. _____		Rework Scrap Use-as-is		Skid-tube Machining Thermoforming Large Fab		Cross tube Small Fab Finishing Composite		Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier		Engineering Quality Other	
NCR No. _____		Suspected Unapproved		QTY Effective : _____		Disposition		Completed By		Lead hand / Supervisor Approval Verification	
Date : _____		Step #: _____		Description Work Order Deviation		QC / QA Coordinator Approval					
Root Cause		Pressure/Forced		Temperature/Cure		Power Loss/Surge		Positioned Wrong			
Environment		Bending		Set-up		Folio/Program		Outside Dimensions			
Design		Centre Not Concentric		BOM/Route		Grain		Over/Under tolerance			
Doc/Data		Cracks		Broken/Damage/Defect		Weld		Part Incorrect			
Equip/Tooling		Crimp/Kink/Ripple/Wave		Inspection Incomplete/Unqualified		Wrong Stock Pulled		Part Lost/Missing			
Handling/Pre		Cuffs		Contamination		Out of Sequence		Part Moved			
Material		Crushing		Countersink		Off-set		Drawing			
Internal Transport		Heat Treat		Cut Too Short		Mislabeled		Finish			
Tribal Knowledge		Wave/Twist in Tube		Instructions Incomplete/Unclear		Fit/Function		Misread			
LOA		Marks/Chatter		Drill Holes		Misaligned/off center		Turning Sequence			
Substation		OTHER : _____									
Past Expiry Date											
Misidentified											

H:/FORMS/Quality Assurance/approved QA/NCRWO Rev I

Work Order ID 156590

156590

Wednesday, February 01, 2017 3:53:40 PM

Item ID: D4464-041

Accept

N9000040100

Setup Start

N.S1

Revision ID:

Item Name: Fuel Tank Assembly

Stop

N.S2

Start Date: 2/6/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/28/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

NR1

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code

Accept Qty

Reject Qty

Reject Number Insp.
Stamp

143

Outsource process - NDT per QSI038 4.1

0.00

1A3

Outsource2

Memo

ISSUE P/O : 35650

30.00

Outsource process - NDT

LPI INSPECTION

C OF C IS REQUIRED

1 MAR 22 2017

145

Receive & Inspect for Damage & Mat'l Cnts

0.00

1A5

Packaging

Memo

0.00

Packaging

1X SP 14-03-22

147

QC- Inspect part completeness to step on W/O

0.00

1A7

QC

Memo

0.00

Quality Control

QC

17-03-22 PD

Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: Date:

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION ☐ Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved		AGAINST DEPARTMENT/PROCESS ☐ Skid-tube ☐ Cross tube ☐ Water Jet ☐ Engineering ☐ Machining ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Quality ☐ Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐ Large Fab ☐ Composite ☐ Supplier			
Date : _____		Step #: _____		QTY Effective : _____			
Description Work Order Deviation		Disposition				Completed By	
						Lead hand / Supervisor Approval Verification	
						QC / QA Coordinator Approval	

Root Cause		FAULT CATEGORY									
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong						
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions						
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance						
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect						
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing						
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved						
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing						
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish						
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread						
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence						
Past Expiry Date	Manufacturing Process										
Misidentified	Past Due										
		OTHER : _____									

Work Order ID 156590

Wednesday, February 01, 2017 3:53:40 PM

156590

Item ID: D4464-041

Accept

N9000040100

Setup Start

NS1

Revision ID:

Item Name: Fuel Tank Assembly

Stop

NS2

Start Date: 2/6/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/28/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____

Tooling: _____

Date: _____

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Run

Start

NR1

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

150

Chemical Conversion Coat per OSI005 4.1

0.00

150

Hand/Finish

Memo

0.20

Hand Finishing

1- Alodine on tank. No alodine inside

MAR 27 2017

160

QC7-Inspect Chemical Conversion Coat

0.00

160

QC

Memo

0.00

Quality Control

@ 17.03.22 RD

164

0.00

164

Small Fab

Memo

0.25

Small Fab

1- Brush Proseal 890A on all internal sheet-metal folds
Proseal 8990A Batch: 136665

2- Assemble as per dwg and for D4577-041/-3/-5 access panels install wet with
proseal 890B

A/R Proseal 890B Batch: 136665

17

17/03/23

DAS 36 9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only



Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Date: _____		Step #: _____		QTY Effective: _____		MRB (QS1042) Approval					
Description Work Order Deviation		Disposition						Completed By			
										Lead hand / Supervisor Approval Verification	
										QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY									
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong						
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions						
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance						
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect						
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing						
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved						
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing						
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish						
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread						
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence						
Past Expiry Date	Manufacturing Process										
Misidentified	Past Due										
		OTHER :									

Work Order ID 156590

Wednesday, February 01, 2017 3:53:40 PM

156590

Item ID: D4464-041

Revision ID:

Item Name: Fuel Tank Assembly

Start Date: 2/6/2017 Start Qty: 1.00

Required Date: 2/28/2017 Req'd Qty: 1.00

Reference:

Accept

N9000040100

Setup Start

N.S1

Stop *N.S2*

Cust Item ID:

Customer:

Approvals: Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Run Start

Stop

NR1

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

169 QC5- Inspect part completeness to step on W/O

0.00

169

QC

Memo

0.00

Quality Control

MAR 23 2017

170

170

Spray Paint

Spray Painting

Memo

0.18

MASK PRIOR PRIME AND PAINT AS PER DWG

PRIME TEMPO GREY AS PER DWG AND OSI

PRIMER BATCH: 134518

PAINT FLAT GREY AS PER DWG AND OSI
PAINT BATCH: 135260

MAR 23 2017

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION ☐ Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved		AGAINST DEPARTMENT/PROCESS ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other				Date : _____ Step #: _____		MRB (QS1042) Approval	
Description Work Order Deviation				Disposition							
Completed By				Lead hand / Supervisor Approval Verification							
								QC / QA Coordinator Approval			

Root Cause		FAULT CATEGORY									
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/ Surge	Positioned Wrong						
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions						
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance						
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect						
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing						
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved						
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing						
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish						
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread						
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence						
Past Expiry Date	Manufacturing Process										
Misidentified	Past Due										
OTHER :											



DQA: _____ Date: _____
QA Closed: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only ☐

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Part No. _____		Rework ☐ Scrap ☐ Use-as-is ☐		Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐					
NCR No. _____		Suspected Unapproved ☐		Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐					
Date : _____		Step #: _____		QTY Effective : _____					
_____		_____		_____					
Description Work Order Deviation		Disposition		MRB (QS1042) Approval					
				Completed By _____					
				Lead hand / Supervisor Approval Verification _____					
				QC / QA Coordinator Approval _____					
Root Cause		FAULT CATEGORY							
Environment ☐		No Re-verification ☐		Temperature/Cure ☐		Power Loss/Surge ☐		Positioned Wrong ☐	
Design ☐		Operator ☐		Set-up ☐		Folio/Program ☐		Outside Dimensions ☐	
Doc/Data ☐		Offset/Setup ☐		BOM/Route ☐		Grain ☐		Over/Under tolerance ☐	
Equip/Tooling ☐		Supplier ☐		Broken/Damage/Defect ☐		Weld ☐		Part Incorrect ☐	
Handling/Pre ☐		Training ☐		Inspection Incomplete/Unqualified ☐		Wrong Stock Pulled ☐		Part Lost/Missing ☐	
Material ☐		Use for Testing ☐		Contamination ☐		Out of Sequence ☐		Part Moved ☐	
Internal Transport ☐		Poor Information ☐		Countersink ☐		Off-set ☐		Drawing ☐	
Tribal Knowledge ☐		Rushing ☐		Cut Too Short ☐		Mislabeled ☐		Finish ☐	
LOA ☐		Product Improvement ☐		Instructions Incomplete/Unclear ☐		Fit/Function ☐		Misread ☐	
Substation ☐		Process Improvement ☐		Drill Holes ☐		Misaligned/off center ☐		Turning Sequence ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____					
Misidentified ☐		Past Due ☐							

Work Order ID 156590

156590

Wednesday, February 01, 2017 3:53:40 PM

Page 9

Item ID: D4464-041

Accept

N9000040100

Setup Start

NS1

Revision ID:

Item Name: Fuel Tank Assembly

Stop

NS2

Start Date: 2/6/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/28/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____

Tooling:

Date: _____

Run

Start

Stop

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

210

Identify as per dwg & Stock Location: _____

0.00

210

Packaging

Memo

0.00

17/03/27 SQ

Packaging

220

QC21 - Final Inspection - Work Order Release

0.00

220

QC

Memo

0.02

Quality Control

17/3/28

DAS
21
9:00

MAR 28 2017

Picklist Print

Wednesday, February 01, 2017 3:53:45 PM

Work Order ID: 156590

156590

Parent Item: D4464-041

D4464-041

Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 11.11.23 NEW ISSUE DD VERF:EC IPP REV:B
12.03.08 AS PER DWG REV.B DD VERF:EC IPP REV:C 12.04.24
ECN 12-571 DD VERF:EC IPP REV:D 13.10.30 DWG
REV PE1 DD VERF:JLM IPP REV:E 14.06.13 AS PER DWG
REV E DD VERF:JLM IPP REV:F 14.07.21 AS PER DWG REV.F DD
VERF:JLM IPP REV:G 15.01.15 AS PER DWG REV.G DD
VERF:JLM IPP REV:H 15.03.04 AS PER DWG REV.H9 DD
VERF:JLM IPP REV:I 15.06-17 AS PER DWG REV.H DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

MS20470AD4-6

Purchased No

Each 852.0000

8

MS20470AD4-6

**

Rivet, Universal Head

Location

Loc Qty

Loc Code

GA

384

384

8

m133077

ST310

468

468

m134852

Manufactured

No

Each

8.0000

1

1

DAS

FEB 02 2017

D3999-7

Corner

Location

Loc Qty

Loc Code

WA003

8

108621

146971

154230

155307

**B146971 → 1x43

DAS

FEB 02 2017

17/03/17

DAS 36 g-89



DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Date: _____		Suspected Unapproved		Skid-tube		Cross tube		Water Jet		Engineering	
Step #: _____		Use-as-is		Machining		Small Fab		Prod. Eng. Coord.		Quality	
Date: _____		QTY Effective: _____		Thermoforming		Finishing		Rec/Store/Packaging		Other	
Description Work Order Deviation		Disposition									
Completed By											
Lead hand / Supervisor Approval Verification											
QC / QA Coordinator Approval											
MRB (QS1042) Approval											

FAULT CATEGORY																	
Root Cause				Temperature/Cure				Power Loss/Surge				Positioned Wrong					
Environment	No Re-verification	Pressure/Forced	Set-up	Folio/Program	Outside Dimensions	Design	Bending	BOM/Route	Grain	Over/Under tolerance	Material	Operator	Off-set/Setup	Cracks	Broken/Damage/Defect	Weld	Part Incorrect
Doc/Data	Operator	Centre Not Concentric	Cracks	Inspection Incomplete/Unqualified	Contamination	Countersink	Cut Too Short	Instructions Incomplete/Unclear	Drill Holes	Wrong Stock Pulled	Part Lost/Missing	Part Moved	Drawing	Finish	Misread	Turning Sequence	
Equip/Tooling	Supplier	Crimp/Kink/Ripple/Wave	Cuffs	Crushing	Heat Treat	Wave/Twist in Tube	Marks/Chatter			Out of Sequence	Off-set	Mislabeled	Fit/Function	Misaligned/off center			
Handling/Pre	Training	Use for Testing	Poor Information	Rushing	Product Improvement	Process Improvement	Manufacturing Process	Past Due									
Material	Use for Testing	Poor Information	Rushing	Product Improvement	Process Improvement	Manufacturing Process	Past Due										
Internal Transport	Poor Information	Rushing	Product Improvement	Process Improvement	Manufacturing Process	Past Due											
Tribal Knowledge	Rushing	Product Improvement	Process Improvement	Manufacturing Process	Past Due												
LOA	Product Improvement	Process Improvement	Manufacturing Process	Past Due													
Substation	Process Improvement	Manufacturing Process	Past Due														
Past Expiry Date	Manufacturing Process	Past Due															
Misidentified	Past Due																

OTHER : _____

Picklist Print

Wednesday, February 01, 2017 3:53:45 PM

Work Order ID: 156590

156590

Parent Item: D4464-041

D4464-041

Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4000-1 Manufactured No

120 Each

9.0000

1 1

D4000-1

**

Fuel Supply Fitting

Location

Loc Qty

Loc Code

GA

137221
153006

120 Each

9.0000

1 1

D4000-5 Manufactured No

120 Each

9.0000

1 1

D4000-5

**

Fuel Tank Vent Fitting

Location

Loc Qty

Loc Code

WA003

107388
152339

120 Each

42.0000

3 3

D4000-9 Manufactured No

120 Each

42.0000

3 3

D4000-9

**

Grommet

Location

Loc Qty

Loc Code

GA

137219
152269

120 Each

5.0000

1 1

D4000-045 Manufactured No

120 Each

5.0000

1 1

D4000-045

**

Fuel Pickup Fitting Assembly

Location

Loc Qty

Loc Code

WA003

151966

120 Each

5.0000

1 1

Wednesday, February 01, 2017 3:53:45 PM

Shop Packet Print

DQA:

Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date: _____

Work Order update only



Work Order: _____		AGAINST DEPARTMENT/PROCESS		Engineering	
Part No. _____		Cross tube		Water Jet	
NCR No. _____		Small Fab		Prod. Eng. Coord.	
Date: _____		Thermoforming		Rec/Store/Packaging	
Step #: _____		Large Fab		Supplier	
Description Work Order Deviation		QTY Effective: _____		MRB (QSI042) Approval	
Disposition		Completed By		Lead hand / Supervisor Approval Verification	
Root Cause		Fault Category		QC / QA Coordinator Approval	
Environment	No Re-verification	Temperature/Cure	Power Loss/Surge	Positioned Wrong	
Design	Operator	Set-up	Folio/Program	Outside Dimensions	
Doc/Data	Offset/Setup	BOM/Route	Grain	Over/Under tolerance	
Equip/Tooling	Supplier	Broken/Damage/Defect	Weld	Part Incorrect	
Handling/Pre	Training	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing	
Material	Use for Testing	Contamination	Out of Sequence	Part Moved	
Internal Transport	Poor Information	Countersink	Off-set	Drawing	
Tribal Knowledge	Rushing	Cut Too Short	Mislabeled	Finish	
LOA	Product Improvement	Instructions Incomplete/Unclear	Fit/Function	Misread	
Substation	Process Improvement	Drill Holes	Misaligned/off center	Turning Sequence	
Past Expiry Date	Manufacturing Process				
Misidentified	Past Due				
OTHER: _____					

Picklist Print

Wednesday, February 01, 2017 3:53:45 PM

Work Order ID: 156590

156590

Parent Item: D4464-041

D4464-041

Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4008-11

Manufactured No

120 Each

3.0000

1 1

D4008-11

Hinge Half

Location

Loc Qty

Loc Code

GA

129867

120 Each

23.0000

3 3

D4057-1

Manufactured No

120 Each

23.0000

3 3

D4057-1

Retaining Ring

Location

Loc Qty

Loc Code

GA

107269

120 Each

3.0000

1 1

D4125-1

Manufactured No

120 Each

3.0000

1 1

D4125-1

Fwd Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144614

120 Each

3.0000

1 1

D4125-3

Manufactured No

120 Each

3.0000

1 1

D4125-3

Aft Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144763

120 Each

3.0000

1 1

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4008-11

Manufactured No

120 Each

3.0000

1 1

D4008-11

Hinge Half

Location

Loc Qty

Loc Code

GA

129867

120 Each

23.0000

3 3

D4057-1

Manufactured No

120 Each

23.0000

3 3

D4057-1

Retaining Ring

Location

Loc Qty

Loc Code

GA

107269

120 Each

3.0000

1 1

D4125-1

Manufactured No

120 Each

3.0000

1 1

D4125-1

Fwd Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144614

120 Each

3.0000

1 1

D4125-3

Manufactured No

120 Each

3.0000

1 1

D4125-3

Aft Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144763

120 Each

3.0000

1 1

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4008-11

Manufactured No

120 Each

3.0000

1 1

D4008-11

Hinge Half

Location

Loc Qty

Loc Code

GA

129867

120 Each

23.0000

3 3

D4057-1

Manufactured No

120 Each

23.0000

3 3

D4057-1

Retaining Ring

Location

Loc Qty

Loc Code

GA

107269

120 Each

3.0000

1 1

D4125-1

Manufactured No

120 Each

3.0000

1 1

D4125-1

Fwd Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144614

120 Each

3.0000

1 1

D4125-3

Manufactured No

120 Each

3.0000

1 1

D4125-3

Aft Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144763

120 Each

3.0000

1 1

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4008-11

Manufactured No

120 Each

3.0000

1 1

D4008-11

Hinge Half

Location

Loc Qty

Loc Code

GA

129867

120 Each

23.0000

3 3

D4057-1

Manufactured No

120 Each

23.0000

3 3

D4057-1

Retaining Ring

Location

Loc Qty

Loc Code

GA

107269

120 Each

3.0000

1 1

D4125-1

Manufactured No

120 Each

3.0000

1 1

D4125-1

Fwd Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144614

120 Each

3.0000

1 1

D4125-3

Manufactured No

120 Each

3.0000

1 1

D4125-3

Aft Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144763

120 Each

3.0000

1 1

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4008-11

Manufactured No

120 Each

3.0000

1 1

D4008-11

Hinge Half

Location

Loc Qty

Loc Code

GA

129867

120 Each

23.0000

3 3

D4057-1

Manufactured No

120 Each

23.0000

3 3

D4057-1

Retaining Ring

Location

Loc Qty

Loc Code

GA

107269

120 Each

3.0000

1 1

D4125-1

Manufactured No

120 Each

3.0000

1 1

D4125-1

Fwd Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144614

120 Each

3.0000

1 1

D4125-3

Manufactured No

120 Each

3.0000

1 1

D4125-3

Aft Sediment Bowl

Location

Loc Qty

Loc Code

WA003

144763

120 Each

3.0000

1 1

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only



Work Order: _____		AGAINST DEPARTMENT/PROCESS		Engineering	
Part No. _____		Cross tube		Quality	
NCR No. _____		Small Fab		Other	
Date: _____		Thermoforming		Water Jet	
Step #: _____		Large Fab		Prod. Eng. Coord.	
Description Work Order Deviation		Suspected Unapproved		Rec/Store/Packaging	
Disposition		QTY Effective: _____		Supplier	
Completed By		MRB (QS1042) Approval			
Lead hand / Supervisor Approval Verification					
QC / QA Coordinator Approval					

Root Cause				FAULT CATEGORY											
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong										
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions										
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance										
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect										
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing										
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved										
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing										
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish										
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread										
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence										
Past Expiry Date	Manufacturing Process														
Misidentified	Past Due	OTHER: _____													

Picklist Print

Wednesday, February 01, 2017 3:53:45 PM

Work Order ID: 156590

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

156590
D4464-041

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4404-5

Manufactured No

120 Each

8.0000

2 2

D4404-5

Cushion, Fwd

Location

Loc Qty

Loc Code

st510

154416

ST516

151103

D4462-1

Manufactured No

112 Each

3.0000

1 1

D4462-1

Baffle

Location

Loc Qty

Loc Code

WA003

145952

150838

D4462-3

Manufactured No

112 Each

2.0000

1 1

D4462-3

Baffle

Location

Loc Qty

Loc Code

WA003

150839

D4463-041

Manufactured No

120 Each

3.0000

1 1

D4463-041

Tank Top Assembly

Location

Loc Qty

Loc Code

WA003

145568

152188

D4463-041

Manufactured No

120 Each

3.0000

1 1

MAR 21 2017 6:00 PM

9-89

**B150838 → 1x 43 DAS FEB 02 2017

**B150839 → 1x 43 DAS FEB 02 2017

**B145568 → 1x 43 DAS FEB 02 2017

Date:

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐		MRB (QSI042) Approval													
Date : _____		Step #: _____		QTY Effective : _____		MRB (QSI042) Approval													
Description Work Order Deviation				Disposition															
Completed By				Lead hand / Supervisor Approval Verification															
								QC / QA Coordinator Approval											
Root Cause				FAULT CATEGORY															
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐				Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐				Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐				Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐				Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				OTHER : _____															

Page 5

Work Order ID: 156590
Parent Item: D4464-041
Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017	Required Date: 2/28/2017
Start Qty: 1.00	Required Qty: 1.00

1 1
DAS FEB 02 2017
9-89

1 1 DAS
B106751 → 143 FEB 02 2017
15-09

1 1

MAR 24 2017

1 1 DAS FEB 02 2017
** B 15D840-7-43 9-89

DQA:

Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date: _____

Work Order update only



Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS		MRB (QSI042) Approval	
Part No. _____		Rework Scrap Use-as-is		Cross tube Small Fab Finishing Composite		Engineering Quality Other	
NCR No. _____		Suspected Unapproved		Skid-tube Machining Thermoforming Large Fab		Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier	
Date: _____		Step #: _____		QTY Effective: _____			
Description Work Order Deviation				Disposition			
Root Cause				FAULT CATEGORY			
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong		
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions		
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance		
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect		
Handling/Pre	Training	Crimp/kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing		
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved		
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing		
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish		
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread		
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence		
Past Expiry Date	Manufacturing Process						
Misidentified	Past Due	OTHER: _____					
				Completed By			
				Lead hand / Supervisor Approval Verification			
				QC / QA Coordinator Approval			

Picklist Print

Wednesday, February 01, 2017 3:53:45 PM

Work Order ID: 156590

156590

Parent Item: D4464-041

D4464-041

Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4023-3

Manufactured No

190 Each

10.0000

1 1

DAS

D4023-3

Cap And Flange

Location

Loc Qty

Loc Code

WA003

10

122537

1

129761

1

132479

2

152210

1

152599

2

154435

3

D4463-9

Manufactured No

112

Each

0.0000

1 1

DAS

D4463-9

Tank Back

D4025-5

Manufactured No

190

Each

10.0000

1 1

DAS

D4025-5

Fuel Quantity Sender

Location

Loc Qty

Loc Code

ST240

10

143838

4

147065

4

154427

2

D4463-11

Manufactured No

112

Each

2.0000

1 1

DAS

D4463-11

Tank Front

Location

Loc Qty

Loc Code

WA003

2

146056

2

Wednesday, February 01, 2017 3:53:45 PM

Shop Packet Print

**B146056 → 1x 43 DAS FEB 02 2017 9-89

**B150841 → 1x 43 DAS FEB 12 2017 9-89

**B152599 → 1x 43 DAS FEB 12 2017 9-89

MAR 24 2017 9-89

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION ☐ Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved		AGAINST DEPARTMENT/PROCESS ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier		MRB (QS042) Approval ☐ Engineering ☐ Quality ☐ Other					
Date : _____		Step #: _____		QTY Effective : _____		MRB (QS042) Approval					
Description Work Order Deviation				Disposition							
Completed By				Lead hand / Supervisor Approval Verification							
								QC / QA Coordinator Approval			
Root Cause				FAULT CATEGORY							
☐ Environment	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong						
☐ Design	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions						
☐ Doc/Data	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance						
☐ Equip/Tooling	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect						
☐ Handling/Pre	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing						
☐ Material	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved						
☐ Internal Transport	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing						
☐ Tribal Knowledge	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish						
☐ LOA	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread						
☐ Substation	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence						
☐ Past Expiry Date	☐ Manufacturing Process	OTHER : _____									
☐ Misidentified	☐ Past Due										

Picklist Print

Wednesday, February 01, 2017 3:53:45 PM

Work Order ID: 156590

156590

Parent Item: D4464-041

D4464-041

Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4577-1

Manufactured No

190 Each

7.0000

1 1

**

17/03/23
DAS 36
9-89

D4577-1

Rear Access Panel

Location

Loc Qty

Loc Code

W/A003

146093
152343

7
4
3

1 1

152343

Manufactured No

190 Each

9.0000

1 1

**

MAR 24 2017
DAS 6
9-89

D3997-29

Placard

Location

Loc Qty

Loc Code

STD69

127111
152611

9
3
6

1 1

152611

Manufactured No

190 Each

12.0000

2 2

**

MAR 24 2017
DAS 6
9-89

D3997-5

Placard

Location

Loc Qty

Loc Code

STD69

150868
154447

12
6
6

1 1

154447

Manufactured No

190 Each

8.0000

1 1

**

MAR 24 2017
DAS 6
9-89

D3997-17

Placard

Location

Loc Qty

Loc Code

STD69

129866
152258

8
2
6

1 1

152258

Manufactured No

190 Each

11/8/2017

1 1

**

MAR 24 2017
DAS 6
9-89



WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____
QA Closed: _____ Date: _____

Work Order update only

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS															
Part No. _____		Rework Scrap Use-as-is Suspected Unapproved		Skid-tube Machining Thermoforming Large Fab		Cross tube Small Fab Finishing Composite		Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier		Engineering Quality Other									
NCR No. _____		Step #: _____		QTY Effective : _____						MRB (QS1042) Approval									
Date : _____		Description Work Order Deviation		Disposition						Completed By									
										Lead hand / Supervisor Approval Verification									
										QC / QA Coordinator Approval									
FAULT CATEGORY																			
Root Cause				Pressure/Forced				Temperature/Cure				Power Loss/Surge				Positioned Wrong			
Environment				Bending				Set-up				Folio/Program				Outside Dimensions			
Design				Centre Not Concentric				BOM/Route				Grain				Over/Under tolerance			
Doc/Data				Cracks				Broken/Damage/Defect				Weld				Part Incorrect			
Equip/Tooling				Crimp/Kink/Ripple/Wave				Inspection Incomplete/Unqualified				Wrong Stock Pulled				Part Lost/Missing			
Handling/Pre				Cuffs				Contamination				Out of Sequence				Part Moved			
Material				Crushing				Countersink				Off-set				Drawing			
Internal Transport				Heat Treat				Cut Too Short				Mislabeled				Finish			
Tribal Knowledge				Wave/Twist in Tube				Instructions Incomplete/Unclear				Fit/Function				Misread			
LOA				Marks/Chatter				Drill Holes				Misaligned/off center				Turning Sequence			
Substation																			
Past Expiry Date																			
Misidentified																			
				OTHER : _____															

Picklist Print

Wednesday, February 01, 2017 3:53:45 PM

Work Order ID: 156590

156590

Parent Item: D4464-041

D4464-041

Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D3997-43

Manufactured No

190 Each

8.0000

1 1

D3997-43

**

Placard

Location

Loc Qty

Loc Code

ST069

127112
152179

8
2
6

11/8/2017

1,478.000

13

13 12 36
8-89

DAS 36 9-89

190 Each

1,478.000

13

13 12 36
8-89

DAS 36 9-89

190 Each

1,478.000

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DAS 36 9-89

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DAS 36 9-89

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DAS 36 9-89

190 Each

1,478.000

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13 12 36
8-89

DAS 36 9-89

190 Each

1,478.000

13

13 12 36
8-89

Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: Date:

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Cross tube ☐ Water Jet ☐ Engineering ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Quality ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐ Composite ☐ Supplier ☐			
Date : _____		Step #: _____		QTY Effective : _____			
Description Work Order Deviation		Disposition		Completed By			
				Lead hand / Supervisor Approval Verification			
				QC / QA Coordinator Approval			

Root Cause		FAULT CATEGORY									
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong						
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions						
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance						
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect						
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing						
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved						
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing						
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish						
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread						
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence						
Past Expiry Date	Manufacturing Process										
Misidentified	Past Due										
OTHER :											

Picklist Print

Wednesday, February 01, 2017 3:53:45 PM

Work Order ID: 156590

156590

Parent Item: D4464-041

D4464-041

Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

D4463-13

Manufactured No

190

Each

2.0000

1

1

DAS 24 9-89

D4463-13

Tank Bottom

Location

Loc Qty

Loc Code

WA003

146951

1

1

WA004

146049

1

1

D4008-041

Manufactured No

190

Each

15.0000

1

1

DAS 6 9-89

D4008-041

Fuel Filler Splash Guard Assembly

Location

Loc Qty

Loc Code

ST143

153054

2

2

ST243

137305

13

5

154405

8

AN3-5A

Purchased No

Each

283.0000

24

AN3-5A

Bolt

Location

Loc Qty

Loc Code

ST350

m136182

283

283

24

136986

24X

17/03/23

DAS 36 9-89

H:/FORMS/Quality Assurance/approved QA/NCRWO Rev I

[illegible]

Picklist Print

Wednesday, February 01, 2017 3:53:46 PM

Work Order ID: 156590

156590

Parent Item: D4464-041

D4464-041

Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-7A

Purchased

No

Each

164.0000

4

AN3-7A

**

Bolt

Location

Loc Qty

Loc Code

ST349

164

164

m135058

164

6.0000

1

1

D4577-3

Manufactured

No

190

Each

6.0000

1

1

D4577-3

**

Middle Access Panel

Location

Loc Qty

Loc Code

WA003

6

3,470.000

4

1

146801

4

152207

2

2

MS20426AD4-4

Purchased

No

Each

3,470.000

4

4

MS20426AD4-4

**

Rivet

Location

Loc Qty

Loc Code

GA

1529

1529

1529

1529

125445

1529

1941

1941

1941

ST312

1941

1941

1941

1941

m132536

1941

11.0000

1

1

D4062-041

Manufactured

No

190

Each

11.0000

1

1

D4062-041

**

Tank Support Assembly

Location

Loc Qty

Loc Code

WA003

11

145585

7

7

154517

4

4

4

4

DQA:

Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date: _____

Work Order update only



Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐		AGAINST DEPARTMENT/PROCESS		MRB (QS042) Approval	
Date : _____		Step #: _____		QTY Effective : _____			
Description Work Order Deviation							
Disposition Completed By							
Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval							

Root Cause										FAULT CATEGORY									
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong														
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions														
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance														
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect														
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing														
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved														
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing														
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish														
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread														
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence														
Past Expiry Date	Manufacturing Process																		
Misidentified	Past Due																		
OTHER :																			

Picklist Print

Wednesday, February 01, 2017 3:53:46 PM

Work Order ID: 156590

156590

Parent Item: D4464-041

D4464-041

Parent Item Name: Fuel Tank Assembly

Start Date: 2/6/2017

Required Date: 2/28/2017

Start Qty: 1.00

Required Qty: 1.00

MS20470AD4-4

Purchased No

Each

3,122.070

165

**

MS20470AD4-4
Rivet, Universal Head

Location

Loc Qty

Loc Code

COCK004

0.001

M135133

0.001

GA

2742.069

M134294

101

M134848

378

M135133

0.069

M135536

67

M136042

237

M136301

1959

ST310

380

M132803

380

D4577-041

Manufactured No

190

Each

4.0000

1

1

D4577-041

Fwd Access Panel Assembly

**

Location

Loc Qty

Loc Code

WA003

4

146803

4

NAS1149D03631

Purchased No

190

Each

781.0000

24

24

NAS1149D03631

Washer

**

Location

Loc Qty

Loc Code

GA

233

m134055

233

ST263

548

m136318

548

DAS 36 8-89

17/02/13

DAS 36 8-89

17/03/23

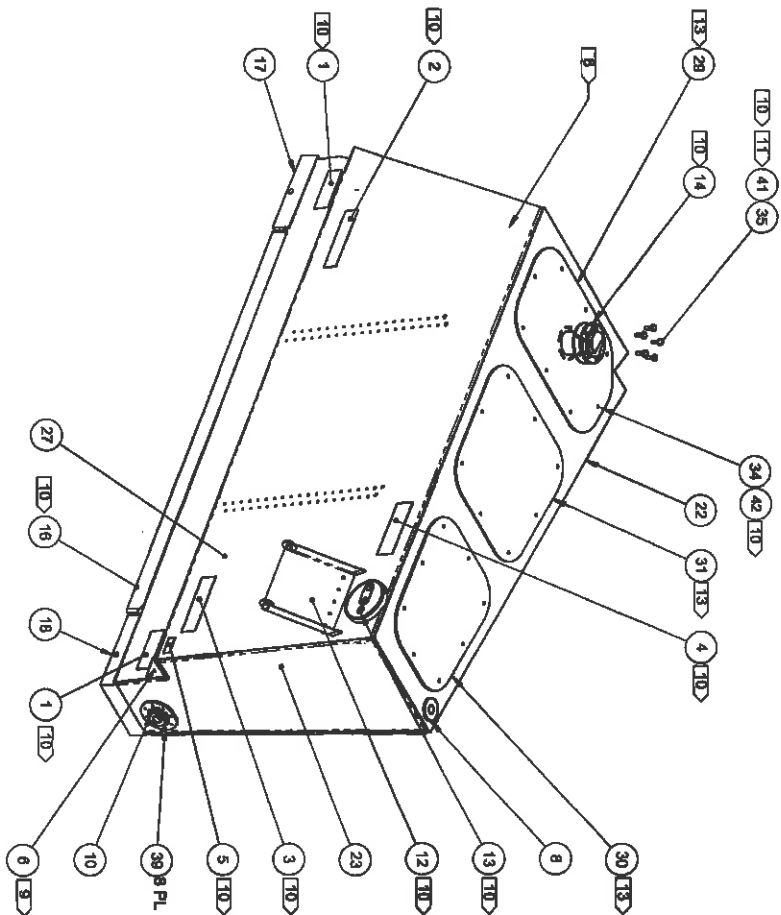
156441 (1x)

DAS 36 8-89

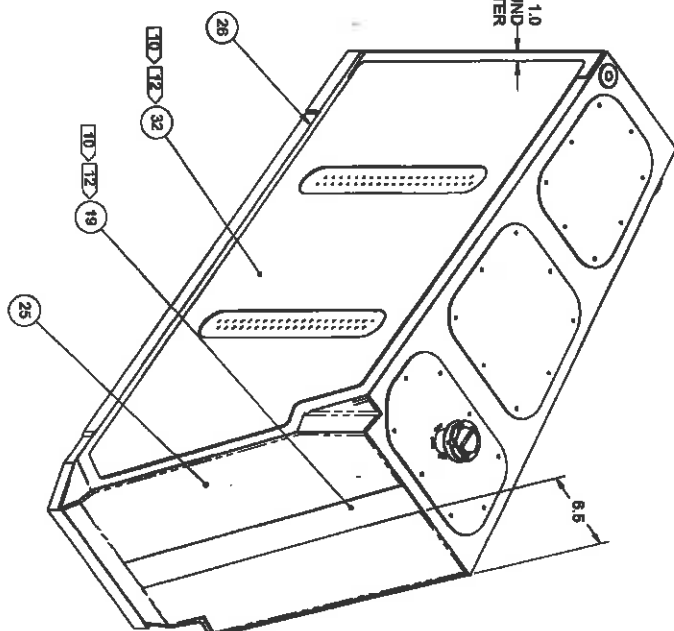
17/03/23

24

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Cross tube ☐ Water Jet ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Finishing ☐ Rec/Store/Packaging ☐ Composite ☐ Supplier ☐				Engineering ☐ Quality ☐ Other ☐	
Date : _____		Step #: _____		QTY Effective : _____		MRB (QS1042) Approval			
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
		OTHER : _____							



D4484-041 FUEL TANK ASSEMBLY

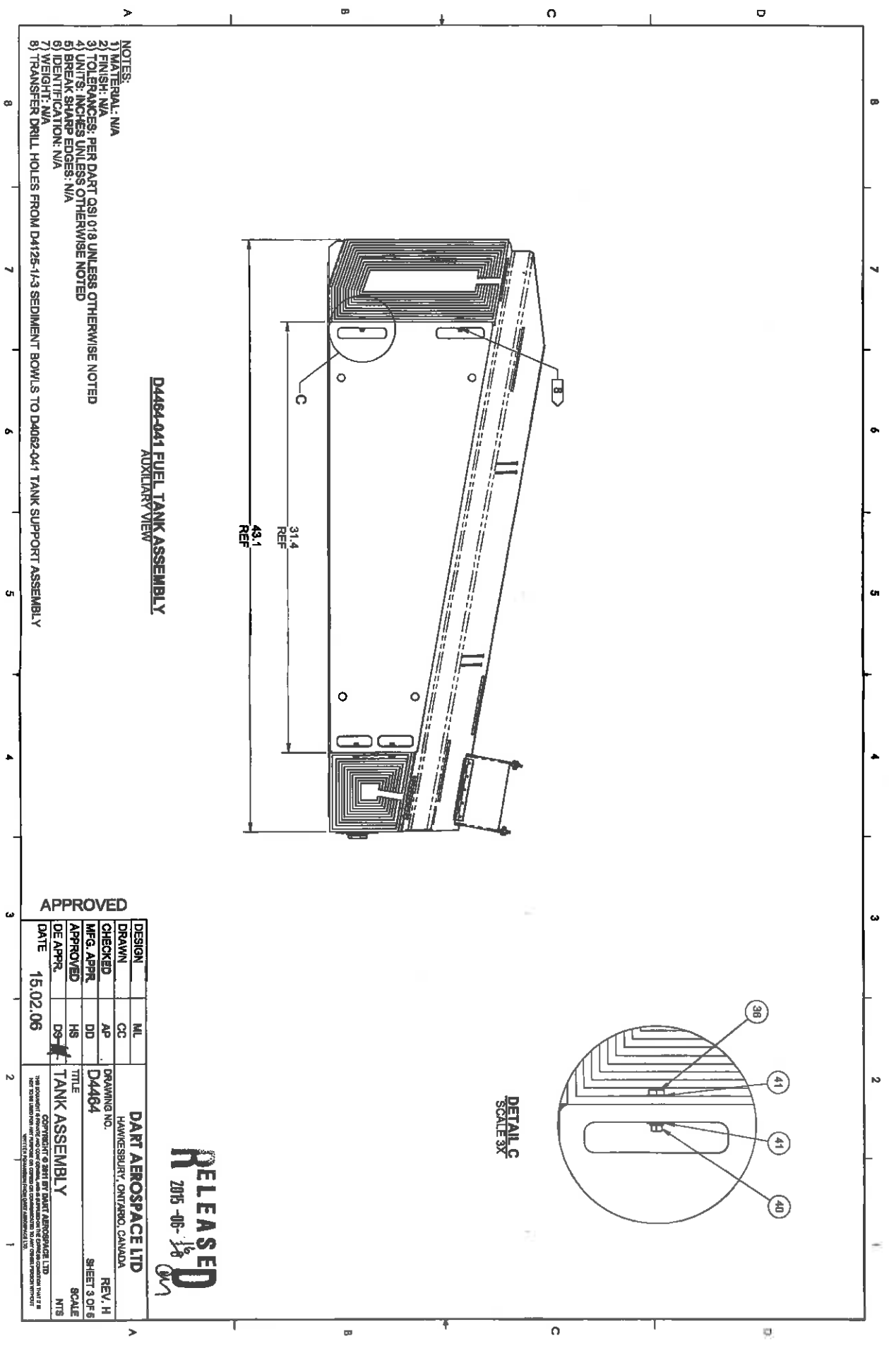


- NOTES:**
- 1) MATERIAL: N/A
 - 2) FINISH: PRIME TEMPO GREY (4.2.1.3.2) PER DART OSI 005 4.2.1
 - 3) TOLERANCES: PER DART OSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D350-794-141" USING D2729-1 RED DECAL
 - 7) WEIGHT: 36.62 lbs
 - 8) LPI AND PRESSURE TEST PER DART P/N "D350-794-141" USING D2729-1 RED DECAL
 - 9) MASK PRIOR TO FINISH
 - 10) INSTALL AFTER FINISH
 - 11) LOCKWIRE BOLTS AFTER INSTALLATION PER AC 43.13 OR MS3340
 - 12) LOCKWIRE CUSHION USING CONTACT CEMENT. TRIM TO FIT IF REQUIRED
 - 13) INSTALL D4577-041-1/1-3 ACCESS PANELS WET WITH PROSEAL P/S 890B.

APPROVED

DESIGN	ML	DART AEROSPACE LTD
DRAWN	CC	HANWESBURY, ONTARIO, CANADA
CHECKED	AP	REV. 1
MFG. APPR.	DD	D4484
APPROVED	HS	TANK ASSEMBLY
DATE	15.02.08	SCALE
		NTS

LEASED
18 2005-06-18



D4464-041 FUEL TANK ASSEMBLY
 AUXILIARY VIEW

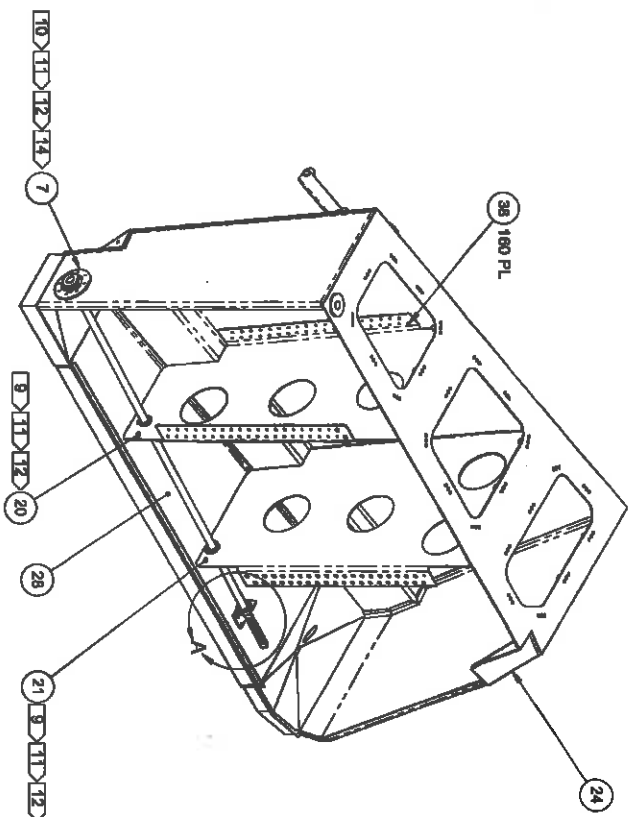
- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART OSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: N/A
 - 8) TRANSFER DRILL HOLES FROM D4125-1/3 SEDIMENT BOWLS TO D4082-041 TANK SUPPORT ASSEMBLY

APPROVED

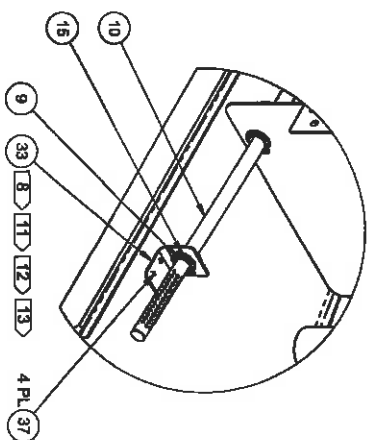
DESIGN	ML	DART AEROSPACE LTD
DRAWN	CC	HAVERSBURY, ONTARIO, CANADA
CHECKED	AP	DRAWING NO. D4464
MFG. APPR.	DD	REV. H
APPROVED	HS	SHEET 3 OF 6
DE APPR.	DS	SCALE
DATE	15.02.06	NTS
TANK ASSEMBLY		

RELEASED
 2015-06-18

THIS DOCUMENT IS PROVIDED AS A SERVICE TO THE CUSTOMER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.



D4464-041 FUEL TANK ASSEMBLY
D4463-9 TANK BACK REMOVED
TO SHOW INTERIOR DETAIL



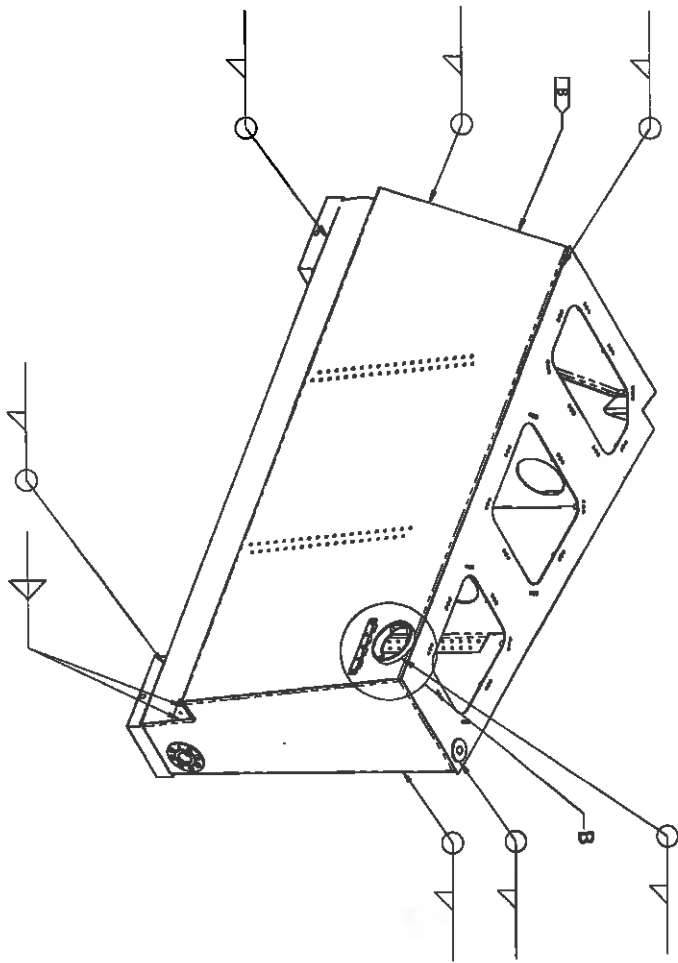
DETAIL A
ROTATED FOR CLARITY
SCALE 2X

- NOTES:**
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: N/A
 - 8) COAT FAYING SURFACES OF D4463-1 ANGLE BRACKET AND D4463-13 TANK BOTTOM WITH PROSEAL P/S 890B
 - 9) AND WET INSTALL MS20426AD-4 RIVETS
 - 10) COAT FAYING SURFACES OF D4462-1/3 TANK FRONT/BACK WITH PROSEAL P/S 890B
 - 11) AND WET INSTALL MS20470AD-4 RIVETS
 - 12) COAT FAYING SURFACES OF D4000-1 FUEL SUPPLY FITTING AND D4463-3 TANK AFT END WITH PROSEAL P/S 890B
 - 13) AND D4000-1 FUEL SUPPLY FITTING WITH PROSEAL P/S 890B
 - 14) AND D4000-1 FUEL SUPPLY FITTING WITH PROSEAL P/S 890B
 - 15) TRANSFER SEAL ALL BUCKED ENDS OF RIVETS WITH PROSEAL P/S 890B
 - 16) HOLES Ø 0.225 X 100° FROM THE OUTSIDE OF THE TANK
 - 17) INSTALL D4000-1 FITTING WITH FLAT FACING UPWARDS
 - 18) BRUSH PROSEAL 890A ON ALL INTERNAL SHEET METAL FOLDS

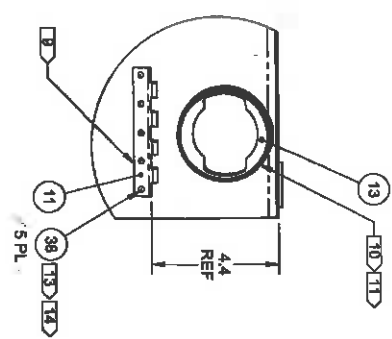
APPROVED

DESIGN	ML	DART AEROSPACE LTD
DRAWN	CC	HAWKESBURY, ONTARIO, CANADA
CHECKED	AP	REV. H
APPROVED	DD	SHEET 4 OF 8
DATE	15.02.06	SCALE
		NTS

RELEASED
R 2015-06-16



D4464-041 FUEL TANK ASSEMBLY
WELDING AND RIVETING DETAIL



DETAIL B
ROTATED FOR CLARITY
SCALE 2X

- NOTES:**
- 1) MATERIAL: N/A
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART OSI 005 4.1
 - 3) TOLERANCES: PER DART OSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: N/A
 - 8) TEMA FLANGES AS REQUIRED TO FIT ASSEMBLY
 - 9) CENTER HINGE BELOW FUEL CAP FLANGE
 - 10) POSITION FUEL CAP FLANGE AS SHOWN, ELONGATED HOLE APPROXIMATELY HORIZONTAL
 - 11) POSITION FUEL CAP FLANGE SO THAT INNER FACE IS FLUSH WITH INSIDE OF TANK
 - 12) WELD PER DART OSI 104
 - 13) COAT FACING SURFACES OF D4408-11 TANK HINGE HALF AND D4463-11 TANK FRONT WITH PROSEAL P/S 890B
 - 14) DOME SEAL ALL BUCKED ENDS OF RIVETS WITH PROSEAL P/S 890B

APPROVED

DESIGN	ML	DART AEROSPACE LTD
DRAWN	CC	HANWESSBURY, ONTARIO, CANADA
CHECKED	AP	DRAWING NO.
MG. APRL	DD	D4464
APPROVED	H6	TITLE
DE APRL	DS	TANK ASSEMBLY
DATE	15.02.06	SCALE
		NTS

RELEASED
N 2015-06-16
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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35650

Purchase Order Date 3/21/2017

PO Print Date 3/22/2017

Page Number 1 of 2

Order From :
SKYSERVICE
6120 MIDFIELD ROAD
MISSISSAUGA, ONTARIO L5P 1B1
CANADA

VC-SKY001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905-678-5636

Ship To Contact
Ship To Phone
Ship Via: Delivered
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	71401-45	PROCUREMENT QUALITY CLAUSES	3/22/2017 No 3/22/2017		1.00	\$0.00	\$0.00
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A024 process certifications A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents							

Line Total: \$0.00

2 156590 D4464-041 FUEL TANK 3/22/2017
Yes
3/22/2017

1.00

\$735.00 \$735.00

LIQUID PENETRANT INSPECTION AS PER QSI 038 OR
LPI AS PER ASTM 1417 LEVEL 2

817-0322

Note:

3/22/2017



skyservice Work Order Traveler

Sky Service F.B.O. Inc.

DOT APP 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO31465	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: PO35650
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:

CARRY OUT NDT ON 1 FUEL TANK ASSY , ITEM ID# D4464-041 , WORK ORDER ID# 156590 , AS PER PO35650

Action Taken:						Date:	Initial/Stamp:
LPI C/O IAW ASTM E-1417M-13 ***NO CRACK FOUND*** PEN. ZL-56, MPO13600, CLEANER SKC-S MPO13923 , EMU. MPO15896, DEV. MPO11715 , UV LIGHT M-20142						MAR 21 2017	
Description	Location	P/N	Qty	Batch	S/N Off	S/N On	

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp	Date:
Name: BAFIK MELIKIAN		MAR 21 2017

